## REMARKS

Reconsideration of this application, as amended, is respectfully requested.

## ELECTION

Applicants hereby confirm the election of claims 1-12, 23 and 26.

Non-elected claims 13-22, 24, 25 and 27-30 have not been cancelled at this time. Appropriate action will be taken with respect to these claims in due course.

Since independent claims 23 and 26 have been elected, and since it is believed that these claims are allowable, it is respectfully requested that the Examiner also consider claims 24 and 25 which depend from claim 23, and claim 27 which depends from claim 26, on the merits.

# RE: INFORMATION DISCLOSURE STATEMENT

It is respectfully requested that the Examiner act on the Information Disclosure Statement filed <u>June 11, 1993</u>, which was filed with a proper Certification Under 37 CFR 1.97(e). It is respectfully requested that the Examiner return an initialled copy of the form PTO-1449 filed with said Information Disclosure Statement filed on June 11, 1993, to confirm that the publications listed therein have all been considered and made of record.

#### RE. DRAWINGS

A separate letter is being sent to the Official Draftsman requesting approval to amend Figs. 8, 12, 13C and 13D, as required by the Examiner on page 3 of the Office Action. Upon approval and upon allowance of a claim, corrected sheets of formal drawings will be supplied in due course.

### RE. SPECIFICATION

The Abstract has been amended to correct the error pointed out by the Examiner. With respect to the alleged errors at lines 14 and 16 of the specification, it is respectfully submitted that the term "smaller" is correctly included at lines 14 and 16 of the Abstract. If the words "smaller" are changed to --larger-at lines 14 and 16 of the Abstract, as suggested by the Examiner, then the recitation at lines 14-17 will be identical to the recitation at lines 10-13. It is respectfully submitted that the original Abstract is accurate at lines 14 and 16, and, for example, is consistent with original claim 28, last paragraph. Also, reference is made to various portions of the specification which recite the subject matter of the Abstract. See, for example, page 43, lines 7-18 of the present specification. If the Examiner continues to urge that lines 14 and 16 of the Abstract need to be amended, it is respectfully requested that the Examiner specify the support for such a requirement.

The specification has been amended to correct the reference to the descriptive labels in the drawings, so as to be consistent with amended Fig. 8. Also, the errors at pages 8 and 21 pointed out by the Examiner have been corrected.

On page 4 of the Office Action the Examiner required that changes in the descriptive labels in the drawing must be accompanied by similar changes in the specification if necessary. However, since the drawings have been amended to add the legends "shift register", and not to delete the legends "SIM-A, SOM-A, etc.", no changes to the specification are required. The specification is still consistent with Fig. 8, even though additional legends have been added to Fig. 8 for clarity and ease of understanding.

The entire specification has been reviewed and all errors which have come to the attention of the undersigned have been corrected. If the Examiner is aware of any further errors in the specification, it is requested that the Examiner telephone the undersigned for prompt further correction of the specification, as required.

It is respectfully submitted that all of the Examiner's requirements concerning the specification have been complied with. No new matter has been added. Approval and entry of the amendments to the Abstract and specification is respectfully requested.

#### PRIOR ART REJECTION

Claims 1, 2, 3, 7, 9, 10, 11, 23 and 26 were rejected as being fully met by Yasui. This rejection is traversed below.

Yasui teaches no more than an apparatus for a multigradation display in which a display of one frame is produced by applying a binary signal to each picture element of the display panel (N-1) times (see column 1, lines 51-54 of Yasui).

Yasui, however, does not teach or suggest a feature of the present invention recited in amended claim 1 in that a current video signal is compared with a previous video signal of a predetermined period before (i.e., preceding by one frame or 2 fields), and gray scale data is generated for N times in accordance with the comparison result. See amended claim 1, lines 7-12.

The comparator 14 shown in Fig. 2 of Yasui is provided to compare contents of memory 11 with those of counter 12. The contents of counter 12 of Yasui is count data and is not image data. Therefore, Yasui does not teach or even remotely suggest comparison of one image data with another image data unlike, the present invention as set forth in amended claim 1.

The apparatus of Yasui is designed to display source data as display data (gradation data).

On the contrary, according to the present invention of amended claim 1, the current video signal as a source signal is not displayed directly. The current video signal is compared with a previous video signal to generate and display new gray scale gradation data.

One specific feature is recited in claim 4 of the present application, which depends from claim 1, is that the gray scale data generating means includes table means for outputting gray scale data according to the current video signal and the previous video signal. The "table means" of claim 4 corresponds to elements 77 and 87 shown in Fig. 9 of the present application.

Claim 23 recites means for providing a non-display time period in a period for each of the multiple number of times of display. This feature is not taught or even remotely suggested by Yasui. Therefore, claim 23 and its dependent claims 24 and 25 are not anticipated or rendered obvious by the cited Yasui reference.

Claim 26 recites means for providing a period in which scan electrodes and signal electrodes are kept at a same potential in a period for each of the multiple number of times of display. This feature is also not taught or even remotely suggested by Yasui. Therefore, it is respectfully submitted that claim 26 and its dependent claim 27 is not anticipated or rendered obvious by Yasui.

In view of the above, it is respectfully submitted that claims 1-12, 23 (and its dependent claims 24 and 25) and 26 (and its dependent claim 27) all patentably distinguish over Yasui under 35 USC 102 as well as under 35 USC 103.

Claims 1, 4, 5, 6, 8, 10, 11, 12, 23 and 26 were rejected as being fully met by Fuse et al. The rejection is traversed below.

Fuse et al teaches a liquid-crystal display in which previous image signal is fed back and a predetermined arithmetic operation between the fed-back image signal and a current image signal is performed so that overlapped image signal components appearing between one scanning line signal and an adjacent scanning line signal of a matrix-type liquid-crystal display can be eliminated.

The subject matter taught by Fuse et al is completely different from that of the present invention, as claimed.

As discussed above, according to the present invention of amended claim 1, a current video signal is compared with a previous video signal of a predetermined period before with respect to the <a href="mailto:same-pixel">same-pixel</a>.

On the contrary, according to Fuse et al, one gradation data of a pixel or a picture element is processed based on another gradation data of an adjacent pixel or adjacent picture element, which is completely different from the claimed feature of the present invention mentioned as above.

In other words, according to the present invention, the data comparison processing is performed in the direction of a time axis, thereby increasing a response speed. According to Fuse et al, on the other hand, the data processing is performed in the direction of a space or in the vertical direction, thereby permitting a high-resolution display.

Since amended claim 1 is respectfully submitted to be patentable over Fuse et al as explained above, sub-claims 2-12 are likewise respectfully submitted to be patentable over Fuse et al.

The above discussion of independent claims 23 and 26 is equally applicable to the Fuse et al reference, and is not repeated herein.

In view of the above, it is respectfully submitted that claims 1-12, 23 (and its dependent claims 24 and 25) and 26 (and its dependent claim 27) all patentably distinguish over Fuse et al under 35 USC 102 as well as under 35 USC 103.

As should be apparent from the foregoing, even a combination of Yasui and Fuse et al still does not teach or even remotely suggest the claimed subject matter of the present invention, as set forth in claims 1-12 and 23-27, under 35 USC 103.

Entry of the amendment, allowance of the claims, and the passing of the application to issue is respectfully solicited.

If the Examiner has any comments, questions, objections or recommendations, the Examiner is invited to telephone the undersigned at the telephone number given below for prompt action.

Respectfully submitted,

Leonard Holtz, Esq. Reg. No. 22,974/

November 8, 1993

Frishauf, Holtz, Goodman & Woodward, P.C. 600 Third Avenue - 30th Floor New York, New York 10016-2088 Tel. No. (212) 972-1400 Fax No. (212) 370-1622 LH:sp